Assignments - 10th - August 2021:   -Chinmay Tipugade
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1. Explain with the block diagram - how cloud front helped us in delivering network features to end users via AWS Cloud ?

- First Application will be stored on amazon's S3 bucket. Then distribution for that particular storage bucket will be created.
- While creating distribution root path of our applications file is given, Eg. index.html
- CloudFront acts as a web server and from here we can access our application without any need of getting new servers.
- It also provides option to provide different edge location using which faster access to user is provided.
- Eg. user from Africa will access the file from Africa's edge location.

2.Explain with screenshots - how to write sample html file & upload into S3 bucket ?

- First we need to create simple html file.
- Then we have to open our s3 bucket and click on upload.
- After that just add the file and upload and file will be uploaded in bucket.

For HTML :

```
index2.html

1  <html>
2  <head> Demo HTML</head>
3
4  <body>************************************************************</body>
5  <body>Hello everyone, welcome to AWS S3 and CloudFront session...</body>
6  <body>Hello everyone, welcome to AWS S3 and CloudFront session...</body>
7  <body>Hello everyone, welcome to AWS S3 and CloudFront session...</body>
8  <body>***********************************************************</body>
9  </html>
```

For uploading :

Amazon S3 > demos3bucketcst

demos3bucketcst Info

| Objects | Properties | Permissions | Metrics | Management | Access Points |

Objects (3)

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory ⎘ to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more ⎘

| ⟳ | Copy S3 URI | Copy URL | Download | Open ⎘ | Delete | Actions ▼ | Create folder | Upload |

Find objects by prefix

	Name ▲	Type ▽	Last modified ▽	Size ▽	Storage class ▽
☐	index.html	html	August 10, 2021, 14:57:05 (UTC+05:30)	412.0 B	Standard
☐	index2.html	html	August 10, 2021, 14:58:21 (UTC+05:30)	412.0 B	Standard
☐	wp4676582-4k-pc-wallpapers.jpg	jpg	August 10, 2021, 14:50:13 (UTC+05:30)	490.8 KB	Standard

Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. Learn more ↗

Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.

Files and folders (1 Total, 0 B)

All files and folders in this table will be uploaded.

| Remove | Add files | Add folder |

🔍 Find by name   ‹ 1 ›

	Name ▲	Folder ▽	Type ▽	Size ▽
☐	trial.txt	-	text/plain	0 B

Destination

Destination
s3://demos3bucketcst

▶ **Destination details**
   Bucket settings that impact new objects stored in the specified destination.

▶ **Permissions**
   Grant public access and access to other AWS accounts.
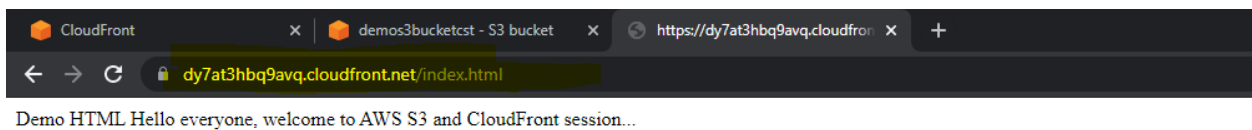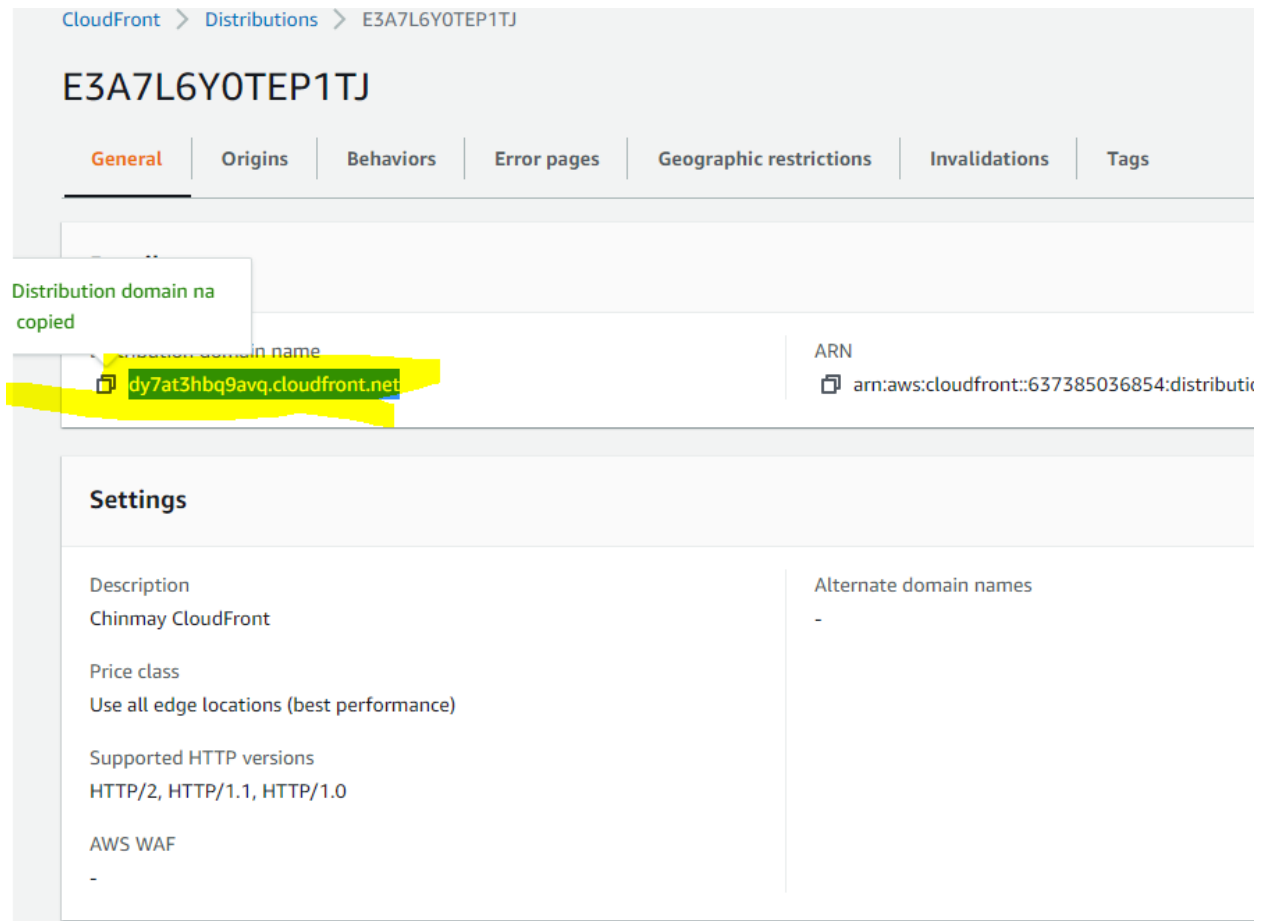
▶ **Properties**
   Specify storage class, encryption settings, tags, and more.

Cancel   **Upload**

3.Explain with screenshots - how to run sample html webpage using AWS cloudfront service ?

- We have to copy the distribution domain name.
- To access different files from bucket we have to provide file name at end of domain name
- Eg. https://dy7at3hbq9avq.cloudfront.net/index.html

CloudFront > Distributions > E3A7L6Y0TEP1TJ

E3A7L6Y0TEP1TJ

General | Origins | Behaviors | Error pages | Geographic restrictions | Invalidations | Tags

Distribution domain na copied

Distribution domain name
dy7at3hbq9avq.cloudfront.net

ARN
arn:aws:cloudfront::637385036854:distributi

Settings

Description
Chinmay CloudFront

Alternate domain names
-

Price class
Use all edge locations (best performance)

Supported HTTP versions
HTTP/2, HTTP/1.1, HTTP/1.0

AWS WAF
-

CloudFront × | demos3bucketcst - S3 bucket × | https://dy7at3hbq9avq.cloudfron × | +

← → C 🔒 dy7at3hbq9avq.cloudfront.net/index.html

Demo HTML Hello everyone, welcome to AWS S3 and CloudFront session...

4. Explain the case scenario - how cloudfrontt can solve Spotify latency issue ?

Initially in Spotify users faced many issues like latency, performance. But after using the cloud front the data delivery issue has been solved like the user from any region is able to load number of songs at just one click …Therefore we can say that cloud front has resolved the issue in the Spotify.

5. Explain how various companies using cloudfront to solve business problems ?

→ Use cases of cloud front are as follows :

- 1.Spotify, Jio Saavn : It helps the user to get petabytes of audio data globally,
- 2. Discovery Communication: to deliver the dynamic content with ultra high definition resolution at very high speed..
- 3.Skynews (BBC news): By faster distribution to the users
- 4. Europe streaming 1: It uses Aws cloudfront to provide seamless streaming experience to viewers.

6.Explain with block diagram how AWS cloud front delivers the content ?
- User writes code and deploys application on amazons s3 bucket
- S3 bucket is connected to cloud front distribution
- This application is hosted on Cloud front
- Cloud front manages to deliver high quality content through secure network in low latency